

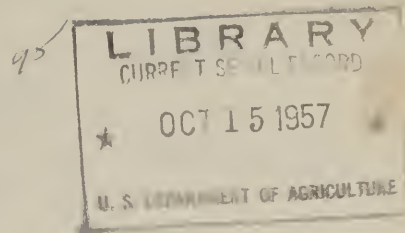
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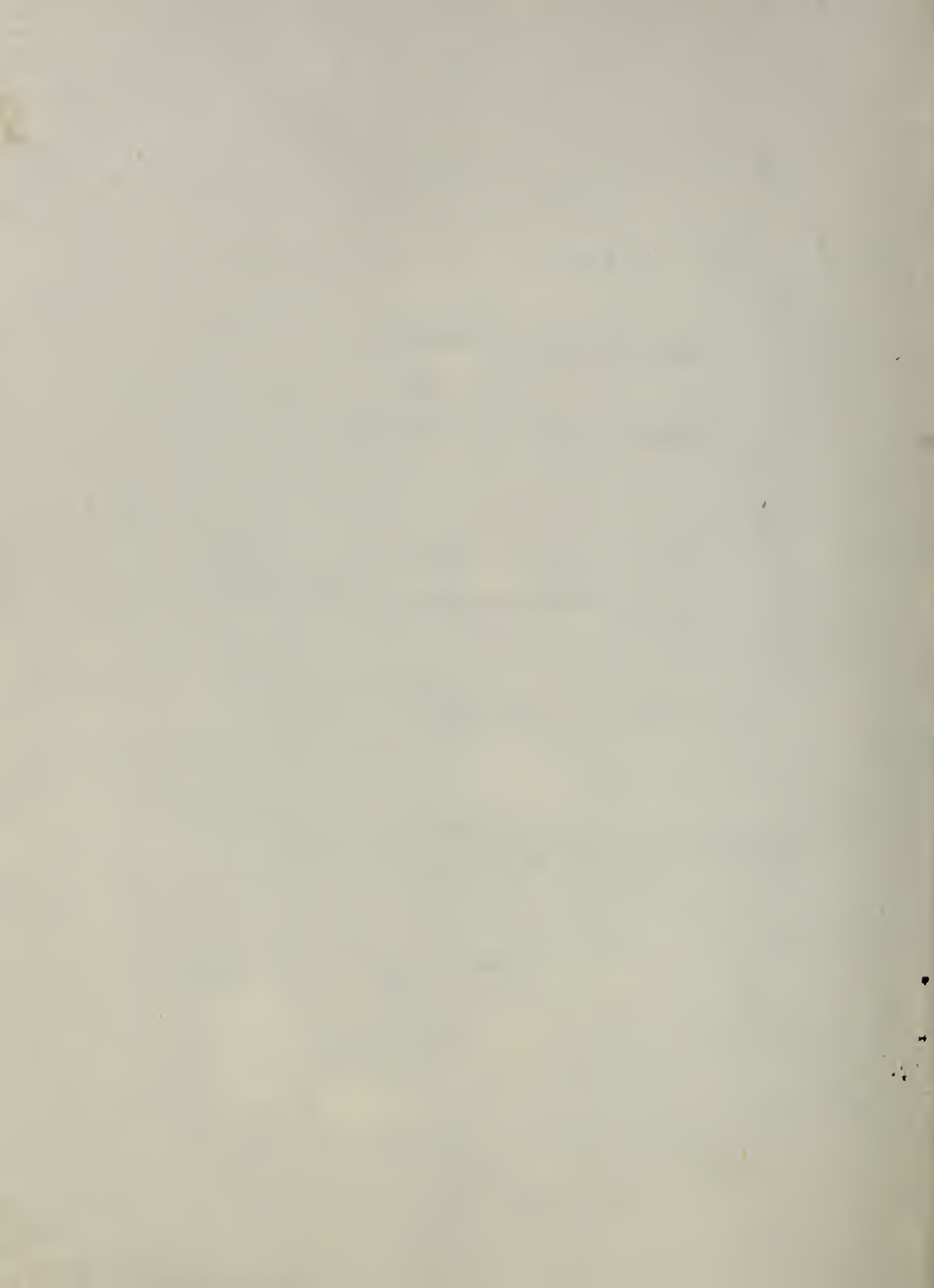
THE EVALUATION OF PEACH LEAF CURL  
ON  
FOREIGN AND DOMESTIC PEACHES AND NECTARINES  
GROWN AT THE  
U. S. PLANT INTRODUCTION GARDEN, CHICO, CALIFORNIA

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The Evaluation of Peach Leaf Curl on Foreign  
and Domestic Peaches and Nectarines

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A severe peach leaf curl epidemic developed during the 1952 season in orchards of the U. S. Plant Introduction Garden at Chico, California. In most years infection has been sparse and inconsequential on all but the more susceptible types. This has been due either to timely applications of dormant copper sprays or extended, warm, dry periods during the more susceptible stages of bud opening and leaf development. However, throughout the winter of 1951-1952 cold and especially wet weather persisted from late October until the middle of March that favored development of this epidemic. Ground conditions were such that it was impossible to move spray equipment through the orchards during this time. Consequently, no dormant spray was used for control of the disease since all but the most dormant varieties were too far advanced in foliation when the ground firmed in the latter part of March.

While the relative susceptibility to leaf curl of most nectarine and peach varieties of domestic origin has been established, apparently there is but little published information concerning most foreign varieties. The 1952 epidemic was therefore considered as an excellent opportunity to evaluate the many nectarine and peach seedling and variety introductions for their susceptibility to leaf curl under the conditions existing at that time. This report presents the results of that survey along with the ratings for a number of domestic varieties carried both as standards of comparison and as part of a plant quarantine program.

For ease in recording and tabulation, leaf curl symptom expression was based on a numerical scale ranging from 0 to 5 in ascending order of susceptibility. The approximate percentages of all leaves showing leaf curl symptoms were arbitrarily assigned as follows:

0	-	No visible signs of leaf curl observed
0/1	-	Inconclusive trace of leaf curl observed
1	-	Up to 20 percent of all leaves showing some symptoms of leaf curl
2	-	21 to 40 " " " " " " " " " "
3	-	41 to 60 " " " " " " " " " "
4	-	61 to 80 " " " " " " " " " "
5	-	81 to 100 " " " " " " " " " "

The 0/1 category is included for a group of introductions in which one individual of a pair was classified as free of leaf curl while the other individual showed inconclusive indications of probable infection.

It should perhaps also be noted that the ratings provide a rough approximation of the severity of infection of individual leaves as well as the number of infected leaves involved. Thus for a low rating, the areas of infection were generally small while a high rating variety would not only have infection on practically every leaf, but more of the areas of infection would generally be



large. As would be expected, defoliation was both rapid and severe on many high rating varieties. Although no record was kept of the individuals involved, it is of interest that quite a number of the seriously affected varieties retained many of their older infected leaves and showed continued infections of new leaves as late as the latter part of July.

The time of first leafing of individuals is included where such information is available. Because circumstances did not permit recording the date of first leaf in all cases for 1952, and since there was a close correlation between 1951 and 1952 foliation, similar data for 1951 is also included to make the record as complete as possible.

The seedlings in Table 1 are listed as peach or nectarine from fruit description data for the individual seedling trees. Where this information is not available, either because the trees have not as yet fruited or other reasons, the seedlings are listed as (peach?) and (nect2) according to the data on parentage supplied by the explorer.

Table 2 summarizes those peaches and nectarines for which are available first leafing data for 1952. This tabulation covers the period of first leafing from and including March 13 to March 28. The peach and nectarine individuals in Table 2 are separated into the seven leaf curl rating groups. Within each rating group is recorded, by accumulated percentages, a tabulation of those individuals which had come into first leaf on and before each successive date. These percentages, therefore, represent foliation data within leaf curl rating groups. For instance, only 3.3 per cent of the 211 individuals in leaf curl rating 1 were in first leaf by March 17 and not until March 25 had 90 per cent or better come into first leaf. On the other hand, 35.7 per cent of the 126 individuals in rating 5 were in first leaf by March 17 and better than 90 per cent were recorded as early as March 21. In other words, those individuals appearing in the earlier portion of the first leafing period were generally more affected by leaf curl than those which were later in coming into first leaf. In spite of this trend, there were individuals within the less susceptible leaf curl groups which came into first leafing early. This would indicate that there are other factors present besides the time of first leafing which affect the degree of peach leaf curl infection.

Prevailing weather conditions at the time of first leafing greatly influence the development of the disease. Climatic conditions recorded during this period are therefore incorporated along with the other data in Table 2. As can be seen in the table, there was cool, wet weather with high humidity during the earlier period of first leafing when greatest infection appeared.

The type of foliar glands was recorded for the large majority of individuals listed in Table 1. Two types of leaf glands are recognized - reniform (kidney-shaped) and globose (round). Certain varieties have no leaf glands and are called eglandular (1). A number of peach and nectarine individuals were found which contained distinct forms of both reniform and globose gland types. These individuals were classified separately under a group termed reniform-globose. Correlations between the presence or absence of leaf glands and susceptibility to attacks of peach leaf curl and certain other diseases and insects have been

noted by several investigators. Hesse and Griggs (3) report H. S. Rivers (4) found that varieties with reniform or globose glands are more susceptible to peach leaf curl than those varieties with eglandular type leaves. The data reported in this paper supports that observation.

In Table 3 separate summations for peach and nectarine are presented, each divided into its respective gland types with the accumulated percentages of individuals within any one gland type tabulated in progression of their susceptibility to leaf curl. The data suggests that the susceptibility of both peaches and nectarines to leaf curl is in the following ascending order: (1) eglandular, (2) globose, (3) reniform and (4) reniform-globose. It was also noted that in most cases for any particular gland type, individual nectarines were less affected by leaf curl than individual peaches of the same gland type.

#### LITERATURE CITED

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2. Gregory, C. T. The taxonomic value and structure of peach leaf glands. N. Y. (Cornell) Agr. Expt. Sta. Bull. 365. 183-222. 1915.
3. Hesse, C. O. and Griggs, W. H. The affect of gland type on the wettability and water retention of peach leaves. Proc. Amer. Soc. Hort. Sci. 56: 173-180. 1950.
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TABLE I - Leaf curl susceptibility, date of first leafing and leaf gland types of a group of peaches and nectarines.

P.I.	Received as Clone - Source - Rating - Location	Rating 0		First Leafing		Leaf gland type (1)
		1952	1951	1952	1951	
C27178	Peach x Almond	P-24-32	3/16	3/11		
C27178	" "	P-24-33	3/13	2/23		
C27178	" "	P-24-34	3/12	2/23		
C27178	" "	P-24-35	3/13	3/2		
66094	Galande France	E-7-17	3/24	3/28		G
91762	Precoce d'Ampuis Portugal	E-8-33, 34	3/24	3/28		G
101835	" " Morocco	E-6-27, 28	3/24	3/25		G
111917	Downing Australia	E-2-33, 34	3/24	3/25		G
113650	Pollardi Italy	E-13-10, 11		3/12		G
126990	Schorlemer Germany	E-14-40		3/26		G
129608	Albert Victor (nect) Australia	E-25-13, 14		3/21		E
129613	Lippiats Prolific (nect) "	E-23-30, 31		3/23, 21		R
129818	Hunt's Tawny (nect) "	E-25-21, 22		3/20, 21		E
131845	Brugnon Galopin (nect) France	D-40-27, 28		3/21		E
132007	Rheingold Germany	D-44-40		3/20		R
132739	Erica Rudolph "	D-44-42, 43		3/22, 20		G
135643	Willermoz (Early Crawford) France	D-40-25, 26		3/18, 16		G
136241	Belle de Louveciennes "	E-7-1, 2	3/24	3/27		E
141116	Sdlg. (3) (nect) Iran (2)	J-J-23		4/1		R
141208	Amy. persica rosea flore pleno England	D-40-12		3/26		R
141208	" " " " " "	D-45-32A		3/18		R

Rating 0 & 0/1

78513	Yennoh	U.S.S.R.	0	E-4-35	3/24	3/25	G
78513	"	"	0/1	E-4-36	3/25	3/25	G
105109	Alexis Lepere	Italy	0	D-44-39A, 40A		3/20, 18	E
105109	" "	"	0/1	E-10-29	3/23	3/21	E
110202	Perla Di Zolia	"	0	E-2-32	3/17	3/19	G
110202	" "	"	0/1	E-2-31	3/19	3/19	G
130966	Belle De Sanzy	France	0	E-11-15	3/17	3/20	R&G
130966	" "	"	0/1	E-11-14	3/22	3/20	R&G
131209	Pineapple (nect)	England	0	E-23-32		3/26	G
131209	" "	"	0/1	E-23-33	3/26	3/26	G

Key to Abbreviations

(1) Leaf gland types

E - Eglandular  
 G - Globose  
 R - Reniform  
 R&G both Reniform and  
 Globose glands present

(2) Seed

(3) Selected seedling

(4) (peach?) - received as peach seed,  
 but not verified by fruiting data.

(5) (nect.?) - received as nectarine  
 seed but not verified by fruiting  
 data.



Rating 0 & 0/1 (contd)

P.I.	Received as Clone - Source - Rating - Location	First Leafing		Leaf gland type(1)
		1952	1952	
131789	Girerd #23 France 0 E-6-1	3/23	3/26	G
131789	" " " 0/1 E-6-2	3/23	3/26	G
131794	Juliette de Saumachez " 0 D-45-5A		3/21	E
131794	" " " 0/1 E-6-31	3/21	3/25	E
132742	G. X. Germany 0 E-19-35	3/25	3/25	G
132742	" " " 0/1 E-19-36	3/23	3/25	G
133551	Peregrine Australia 0 E-12-32		3/29	G
133551	" " " 0/1 E-12-31		3/29	G
134667	Henri Adenot Switzerland 0 E-20-20	3/26	3/27	G
134667	" " " 0/1 E-20-19	3/25	3/27	G
136151	La Plus Précoce de Saumachez France 0 D-45-22		3/20	G
136151	" " " " " 0/1 D-45-23		3/19	G

Rating 1

C24982	Elberta seedling		E-15-9,10	3/23	3/18,25	G
C25061	Cardinal (nect)	U.S.A.	E-23-6	3/26	3/21	R
C26651	Gower (nect)	"	E-8-24	3/22	3/20	E
C26651	" "	"	D-44-4A		3/15	E
C27124	Libbee	"	E-8-25		3/20	R
C27154	Farida	"	D-39-33,34		3/16,15	R
C27156	Florence	"	D-44-5A		3/16	R
C27156	"	"	D-40-43		3/21	R
C27166	Leeton	"	D-39-39,40		3/16,17	R
C27182	Meadow Lark	"	D-44-2			G
C27355	Peach 40015-22	"	D-43-3,3A		3/24	R
C27356	Silver Lode (nect)	"	D-43-4,4A		3/12	R
43129	Late Champion	New Zealand	E-4-1,2	3/20,21	3/17	R
43142	Lippiatt's Late Orange (nect)	"	E-23-14,15		3/21,22	E
43146	Sure Crop (nect)	New Zealand	E-24-21,22		3/20	R
48508	Indian Blood	U.S.A.	E-8-39,40	3/23	3/25	E
55813	Freeman Free	"	E-2-3,4	3/20,21	3/20	R
57918	White Cling	New Zealand	E-2-5,6	3/23,22	3/20	R
65977	Gialla Di Padova(nect)	Italy	E-23-42,43	3/26,23	3/26	R
65978	Regina Vittoria (nect)	"	E-23-24,25		3/20	G
65979	Vineuse Henri Monicourt(nect)"		E-25-9	3/25	3/27	R
66094	Galande	France	E-7-18	3/23	3/28	G
68178	Nectarine (unknown)	U.S.A.	E-25-11,12	3/24,25	3/27	R
68352	Pullar's Clina	Australia	E-4-23,24	3/17,19	3/23,19	R
68353	Golden Queen	"	E-4-25,26	3/22,20	3/22	G
68354	Goodman's Choice	"	E-4-27,28	3/21	3/19	R
74011	Pineapple (nect)	U.S.A.	E-24-5,6	3/25	3/25	G
74011	" " "	"	D-12-13,14	3/27	3/21,19	G
74011	" " "	"	D-44-26A,27A		3/15,22	G
77625	Early Rivers (nect)	England	E-23-26,27	3/23,24	3/26	R
77625	" " "	"	E-23-36,37	3/25	3/26	R

P.I.	Received as Clone -	Source -	Rating -	Location	First Leafing		Leaf gland type(1)
					1952	1951	
77626	John Rivers (nect)	England		E-23-29	3/22	3/26	R
77626	" " "	"		E-23-38,39	3/26,24	3/26	R
78545	Giallona di Napoli						
	O Terzarola Cavallara	Italy		E-13-38		3/18	R
82413	Baladi	Palestine (2)		E-11-6,7	3/21	3/18	E
84273	Seedling (3)	U.S.S.R. (2)		D-10-7		3/15	
88545	Golden King	New Zealand		D-44-28A,29A		3/16	E
88545	" "	" "		D-25-2		3/17	E
88565	Pineapple (nect)	" "		E-24-20	3/24	3/24	G
88565	" "	" "		D-8-6		3/19	G
88565	" "	" "		D-44-36,36A		3/18,16	G
93826	Inkcos	South Africa		E-10-5,6	3/23	3/20	E
99243	Dripstone	Australia		D-1-17,18		3/8	R
99243	"	"		E-15-13, 14		3/18	R
101663	Ta Tao or Fei #1	China		E-5-4,5		3/27	R&G
101664	Ta Tao or Fei #2	"		E-5-6,7		3/27	R
101665	Ta Tao or Fei #3	"		E-5-8,9	3/27	3/27	R
101667	Ta Tao or Fei #5	"		E-5-10,11	3/27	3/27	R
101668	Ta Tao or Fei #6	"		E-5-13		3/28	R
101669	Ta Tao or Fei #7	"		E-5-14,15		3/28	R
101674	Ku Chua Hung #12	"		E-5-16,17	3/25	3/28,30	R
101675	Ku Chua Hung #13	"		E-5-18,19		3/28	R
191676	Ku Chua Hung #14	"		E-5-20,21		3/28	R
101678	Ta Tao or Fei #16	"		E-5-24,25	3/25	3/30,27	R
101681	Ta Tao or Fei #19	"		E-5-28,29	3/25	3/27	R
101682	Ta Tao or Fei #20	"		E-5-30,31		3/28	R
101684	Ta Tao or Fei #22	"		E-5-32,33	3/26,4/9	3/28	R
101686	Ta Tao or Fei #24	"		E-5-36		3/28	R
101686	" " " "	"		D-40-11	3/28	3/21	R
101687	Ta Tao or Fei #25	"		E-5-38,39	3/26	3/28	R
101823	Bienvenida	Morocco		E-6-6	3/24	3/24	G
101824	Brugnon Adele	"		E-6-7,8	3/23	3/24	R
101827	De Reus	"		E-6-13,14	3/21,20	3/19,25	G
101830	Infante Elizabeth	"		E-6-19,20	3/21,22	3/19	G
102403	Grossa Montagna	Italy		E-6-39,40		3/19	G
102521	Giallona Di Papigno	"		E-7-15, 16	3/19,22	3/20	R
102524	Isonzo	"		E-7-19, 20	3/23,19	3/28,20	R
104484	Carota	"		E-10-13,14	3/21,22	3/25	
104486	Cotogna di Siena	"		Nurs E2(B)W			R
104494	Santa Anna Giallo	"		E-10-27	3/21	3/20	R
104494	" " "	"		D-41-29		3/16	R
105110	Arthur Chevreau	"		E-10-31,32	3/25,22	3/24	G
105111	Baltet	"		E-10-33	3/22	3/24	E
105116	Cotogna Massima	"		E-10-39,40	3/22,23	3/20	R
105118	Poppa di Venere						
	d'Ognissanti	"		E-9-14,15	3/23,22	3/25,20	R
105121	Sanguigna	"		E-11-2,3	3/20,23	3/25	R
105122	Senator Carlo Ridolfi	"		E-14-34,35	3/22	3/26	R
105362	Genovese	"		E-11-10,11	3/26,24	3/25	E



Rating 1 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing 1952	1951	Leaf gland type(1)
105364	Incomparable Guilloux	Italy		E-9-20,21	3/22,20	3/27,20	R
105373	Poppa di Venere Tardive	"		E-11-24,25	3/18,19	3/20	R
105374	Re Umberto	"		E-11-26,27	3/23,22	3/20	R
105464	Seedling (3) Fl/39	Argentina (2)		Nurs.E-2(B)			R
105464	" " Fl/43	"	"	Nurs.E-4(D)			R
105465	" " Fl/45	"	"	Nurs.E-2(B)W1			R
105843	Edward VII	Australia		E-2-25,26		3/3	E
105851	Rowe's Champion	"		E-11-40		3/29	R
105856	Lee's (nect)	"		E-24-33,34	3/24,25	3/24	R
105858	W.C.Fripp (nect)	"		E-24-11,12	3/21,20	3/24	R
110201	Paviagiaglia	Italy		E-12-17,18	3/24,22	3/27	R
111412	Ikrewarra (nect)	Australia		E-24-15,16	3/22	3/25	R
111923	Ben's Rick (nect)	"		E-24-37,38		3/21	R
126560	Vaughn	U.S.A.		E-3-33,34	3/24,25	3/28	R
126563	South Haven	"		E-3-3,4	3/22,23	3/24	G
129611	Gigantic (nect)	Australia		Nurs. E1(A)W			R
126989	Kerneshter von Vorgebirge	Germany		E-14-38,39	3/24,22	3/26	R
126990	Schorlemer	"		D-44-44A		3/20	G
127350	Gaillard-Girerd #2	France		E-14-43	3/23	3/20	G
128547	Clone #1376	U.S.S.R.		E-15-5,6	3/23	3/20,24	R&G
129610	Fertile du Poitou(nect)	Australia		E-24-23,24	3/23,25	3/21	R
129810	Noonan	Australia		E-11-8,9	3/19	3/20	E
129811	Palora	"		E-18,19-43	3/25,23	3/25,26	G
129816	Yarra Yarra	"		E-19-5,6	3/22,23	3/20,26	R
130896	Duke of York	England		E-11-30,31	3/23,25	3/25	R
130897	Golden Eagle	"		E-19-7,8	3/24,25	3/26	R
130899	Magdala	"		D-43-10,10A			E
130903	Humboldt (nect)	"		E-25-23,24	3/23,24	3/25	G
130901	Newton (nect)	"		D-40-33,34		4/2	R
130905	Spencer (nect)	"		E-25-35	3/24	3/27	G
130905	" "	"		D-44-43A		3/20	G
130968	Guilloux 41	France		E-11-32,33	3/24,22	3/25	R
130980	Proskauer	Germany		E-6-10-11	3/17,20	3/19,24	R
131069	James Walker	England		E-19-19,20	3/23,24	3/26	R
131073	Hardwicke (nect)	"		E-25-27,28	3/24,21	3/27	R
131074	Prince of Wales (nect)	"		E-25-29,30	3/20	3/26	G
131177	Seedling	Mexico (2)		J-14-4	3/21	3/14	R
131430	Darwin (nect)	England		E-5-1,2	3/26,25	3/25	R
131473	Grosse Madeleine	France		E-11-41,42	3/21,18	3/20	G
131551	Fernand Demeyer (nect)	Belgium		E-25-33,34	3/23	3/20,21	G
131779	Angevine Hative	France		E-19-25,26	3/20,22	3/26	R
131780	Angevine Tardive	"		D-39-16,17		3/15	R
131788	Gerard	"		D-39-37,38		3/15,16	G
131790	Girerd Jaune	"		E-9-11		3/20	G
131790	" "	"		D-44-45A		3/14	G
131792	Inspecteur Battanchon	"		E-12-3,4	3/23,24	3/25	R
131799	Tardive d'Orleans	"		E-19-31,32	3/21,19	3/18	R&G
131802	Port St.Marie (nect)	"		E-7-9,10		3/20	R
132005	Eiserner Kanzler	Germany		D-44-38,39		3/17,14	R
132171	Seedling	U.S.S.R.(2)		J-14-31		3/16	R
132172	"	"	"	J-14-35		3/14	G

Rating 1 (contd)

P.I.	Received as Clone	Source - Rating -	Location	First 1952	Leafing 1951	Leaf gland type(1)
132175	Sdlg. of Geokchaisky	Bely U.S.S.R. (2)	J-14-39	3/21	3/15	R
132176	" of Gudantsky	" "	J-14-41	3/20	3/17	R
132466	Neige	France	E-7-39, 40	3/24, 23	3/28	R
132535	Late Admirable	England	D-44-41		3/14	G
132740	Frau Marie Rudolph	Germany	D-39-3, 4		3/23, 21	E
132741	Girard #1	"	E-7-41, 42	3/21, 23	3/27	G
132743	Luckenbusser	"	E-19-37, 38	3/25	3/28	R
133497	Bell's November	Australia	D-39-1, 2		2/13, 15	
133498	Black Braddock	"	E-12-7, 8		3/18, 20	E
133499	Braddock Imperial	"	D-40-8		3/21	E
133499	" "	"	D-45-11A		3/22	E
133503	Italian Slip	"	E-12-11, 12	3/22	3/21	R
133504	King of All	"	D-39-45, 46		2/20	E
133506	Mannell's Slip	"	E-12-13, 14	3/23, 24	3/27, 20	E
133510	Rennie	"	D-39-9, 10		2/13, 11	E
133549	Ireland's Seedling	"	E-12-27, 28	3/24, 23	3/25	G
133552	Pickering	"	E-12-33, 34	3/24, 25	3/27	G
133555	Webb's Seedling	"	D-40-40, 41		3/21, 22	G
133557	Fripp's Late (nect)	"	E-25-37, 38	3/23	3/21	R
133558	Victoria Rivers (nect)	"	E-25-39, 40	3/23	3/24	R
133558	" " " "	" "	Nurs El(A)W			R
133747	Zerbes	" "	E-13-4, 5	3/24, 23	3/25	G
133846	Free King	New Zealand	E-13-14, 15	3/22, 23	3/25	R
133859	Goodhue	" "	E-20-9, 10	3/21	3/26	R
133913	Golden Queen	Australia	E-4-5, 6	3/24, 23	3/25	G
133918	Marina (nect)	"	E-25-41, 42	3/22	3/24	R
133974	Seedling	Punjab (2)	J-14-42	3/18	3/15	R
133987	Nooiens (Herholdt's Strain)	S.Africa	E-8-17, 18		3/12	E
133992	Van Rensburg	S.Africa	D-45-19A, 21		3/14	R
134151	Seedling (3) of 8763	" (2)	D-9-3		3/12	R&G
134151	" " " "	" "	E-20-1, 2		3/12, 10	R&G
135993	Noblesse	England	D-40-23, 24		3/15, 16	E
135993	"	"	E-8-42, 43	3/18	3/20, 25	E
136145	Belle Illoise	France	E-7-7	3/22	3/20	R
136148	Girard #4	"	D-45-20A		3/14	G
136148	"	"	E-8-2	3/24	3/26	G
136149	" #23	"	E-8-19, 20	3/23, 22	3/26	G
136150	Henri Adeno	"	D-40-38, 39		3/19, 27	G
136414	Barrington	England	D-39-21	3/28	3/15	G
136414	"	"	E-45-22A		3/15	G
136579	Belle Beausse	France	D-40-9, 10		3/15	G
141087	Seedling	Iran (2)	J-16-42	3/22	3/16	R
141087	"	" "	J-16-44	3/23	3/17	R
141087	"	" "	J-L-60			R
141109	"	" "	J-L-9			R
141109	"	" "	J-L-1		3/16	R
141110	"	" "	J-G-105	3/20	3/16	R
141115	" (nect)	" "	J-H-6	3/21	3/16	R



Rating 1 (contd)

P.I.	Received as Clone	Source - Rating - Location	First Leafing		Leaf gland type(1)
			1952	1951	
141115	Seedling (nect)	Iran (2)	J-H-7	3/20	3/17 R
141115	" "	" "	J-H-25	3/19	3/14 R
141115	" "	" "	J-H-62	3/19	3/18 R
141115	" "	" "	J-H-72		3/20 R
141115	" "	" "	J-H-51	3/19	3/17 R
141115	" "	" "	J-H-56	3/18	3/18 R
141115	" "	" "	J-H-59		3/17 R
141115	" "	" "	J-H-61		3/19 R
141116	" "	" "	J-J-28		3/30 R
141116	" "	" "	J-J-30		3/20 R
141116	" "	" "	J-J-32		3/16 R
141118	" "	" "	J-J-67		3/20 R
141119	" "	" "	J-H-46		3/15 R
141119	" "	" "	J-H-64	3/20	3/13 R
141119	" "	" "	J-H-70	3/21	3/14 R
141204	A.persica foliis purpureis	England	D-38-36		3/15 R
141204	" " "	" "	D-38-37		3/15 R
141207	" pendula rosea	" "	D-40-3		2/21 R
141207	" " "	" "	D-40-4		3/16 R
142236	Vanguard	Canada	E-9-12,13	3/21,20	3/20,24 R
143345	Seedling	Iran (2)	J-I-89	3/13	3/14 E
143345	" "	" "	J-I-94	3/19	3/15 E
143345	" "	" "	J-I-100	3/17	3/15 E
143345	" "	" "	J-I-88		3/17 E
143740	Fair's Beauty	U.S.A.	D-41-33,34		3/16,15 R
143743	Sunglo	"	D-41-31,32		3/15 G
143911	World's Earliest	"	E-7-5,6	3/21,20	3/26.25 R
145998	Seedling	Iran (2)	P-22-22	3/19	3/21 R
145998	" "	" "	P-22-24	3/17	3/20 R
146007	" "	" "	P-22-66	3/17	3/20 R
146014	" (nect)	" "	P-23-38		3/26 R
146020	" "	" "	P-23-7		3/23 R
146020	" "	" "	P-23-8		3/20 R
146022	" "	" "	P-23-46		3/22 R
146025	" "	" "	P-22-31		3/24 R
146027	" (nect.?)	" "	P-20-43	3/20	3/23 R
146027	" (nect.?)	" "	P-20-44		3/25 R
146032	Seedling	" "	P-22-46	3/14	3/18 E
146035	" (nect)	" "	P-24-28		3/21 R
148268	Shipper's Late Red	U.S.A.	E-12-43		3/27 R
149312	Dixigem	"	E-14-6	3/22	3/20 R
151158	Royal George	England	D-45-31,32		3/18,13 E
158367	Goodcheer	U.S.A.	D-43-13		R&G
158368	Summer Rose	"	D-43-13A, 14		3/13 R

Rating 2

P.I.	Received as Clone - Source - Rating - Location	First Leafing 1952	1951	Leaf gland type (1)
C25875	Peaks U. S. A.		3/15	E
C27146	Early Rochester "		3/20, 18	R
C27151	Elberta "		3/15	R
C27155	Ellis "		3/18, 16	G
C27157	June Elberta "		3/20, 18	G
C27158	Nestor "		3/17, 16	G
C27167	Penryn "		3/17, 18	R
C27184	Redwing "		3/12, 14	R
C27354	Altair peach "		3/15	R
26503	Seedling India (2)		3/21	R
38469	Reicheng Sdlg. China (2)		3/21	R
43140	Diamond Jubilee (nect) N. Zealand		3/20	R
43568	Sdlg. of Tardio Encarnado Spain (2)	3/22	3/25	R
57915	Lord Kitchener N. Zealand		3/13, 14	R
63851	Shalil India (2)		3/16	R
65974	De Coosa (nect) Italy		3/20	R
65974	" " " "		3/12	R
65974	" " " "		3/13, 16	R
77876	Tos China #1 "	3/21, 20	3/17, 19	R
86299	Seedling Persia (2)	3/28	3/20	R
88561	Dargaville (nect) N. Zealand		3/13	R&G
88561	" " " "		3/19	R&G
88562	Dryden (nect) "	3/22, 23	3/19	R&G
88563	Gold (nect) "			R&G
88564	John Rivers (nect) "		3/21, 20	R
88564	" " " "		3/21	R
101559	Seedling France (2)		3/17	R
101677	Ta Tao or Fei #15 China	3/26	3/28	R
101680	" " " #18 "	3/25, 26	3/27	R
101685	" " " #23 "		3/28	R
101688	" " " #26 "	3/26	3/26	R
101689	" " " 27 "	3/25, 24	3/28	R
101836	Peregrine Morocco	3/23	3/25	G
104287	Soleil d'Octobre "		3/20	R
104315	North Caucasus #26 (3) U.S.S.R. (2)			E
104488	Goschina Novembre Italy		3/20	R
104492	Santa Caterina Italy	3/17, 18	3/19	R
105839	Blackburn Australia		3/17	R
105850	Roger Louis "	3/21, 20	3/25	R
106232	Wright's Orange (nect) N. Zealand		3/18	R
111838	River's Orange (nect) Australia		3/21	R
111916	Camden Golden "	3/23	3/20	R
113452	Rogani-gow U.S.S.R.		3/20	R&G
117488	Fisher Canada	3/23, 24	3/25	R
117679	Clone #01370 U.S.S.R.		3/25	R&G
119836	Khitistavsky Turkestan		3/20	R
122165	Seedling India (2)	3/20	3/20	R
125282	Sunbeam U.S.A.	3/23	3/20	R
125397	Grady (nect) "		3/19	R

Rating 2 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing 1952	1951	Leaf gland type (1)
125397	Grady (nect)	U.S.A.		D-44-41A		3/15	R
126554	Marigold	"		E-3-29,30	3/21,20	3/20	R
126555	Massasoit	"		E-3-23,24	3/19,22	3/24	R
126562	Halehaven	"		E-3-5,6	3/20,24	3/17	G
126564	Valiant	"		D-44-42A		3/16	R
126564	"	"		E-3-9	3/21	3/19	R
126566	Viceroy	"		E-3-11,12	3/21,22	3/19	R
129609	Emmerson (nect)	Australia		D-44-23,24		3/13,12	R
129612	Goldmine Late (nect)	"		E-25-15,16		3/20	R&G
129678	Stanwick (nect)	S. Africa		E-25-17,18		3/21,22	R
129803	Beale	Australia		E-18-33,34	3/24,23	3/25	G
129807	Healesville Cline	"		E-18-39,40	3/24,21	3/18	R
129812	Peak Cling	"		E-19-1,2		3/18	E
129815	Thieles Cling	"		E-19-3,4		3/20,18	R
129817	Fripp's Late (nect)	"		E-25-19,20	3/23,21	3/21	R
130726	Seedling	Mexico (2)		J-13-129		3/7	R
130894	Alexandra Noblesse	England		D-44-27,28		3/17,21	G
130907	Victoria (nect)	"		D-39-25,26		3/13	R
130937	Summercrest	U.S.A.		D-39-7,8		3/13	R
130965	Aribaud	France		E-7-11,12	3/22	3/27	G
131031	Garden State (nect)	U.S.A.		E-25-25,26		3/18	R
131075	Violette Hative (nect)	England		E-25-31,32	3/23,24	3/26	R
131208	Princess of Wales	"		E-11-36,37	3/23	3/25	G
131431	Milton (nect)	"		E-10-9,10	3/22,24	3/24	G
131462	James Walker	"		E-9-2	3/22	3/25	R
131472	Dr. Aribaud	France		E-19-23,24	3/23,22	3/27	G
131514	Belle Henri Pinaut	"		D-44-30		3/16	R
131514	" " "	"		E-11-1	3/21	3/20	R
131518	Cuzin (nect)	"		D-39-23,24		3/15	R
131781	Bardou Job	"		E-19-27,28		3/25	R
131783	Biscoute	"		D-44-37		3/13	R
131791	Grosse d'Italia	"		D-39-28,29		3/19,20	R
131798	Rouge D'Aout	"		E-12-5,6	3/23,21	3/17	R
131800	Wallas	"		E-19-33,34		3/18	R
131813	Aribaud	"		D-45-7A		3/19	G
131813	"	"		E-6-35	3/20	3/22	G
131814	Elegante (Guilloux 92)	"		E-7-38	3/24	3/28	G
131814	" " "	"		E-6-38	3/19	3/25	G
131847	Lady Palmerston	"		E-9-32	3/23	3/20	R
132171	Sdlg of Aidinovsky	U.S.S.R. (2)		J-14-33	3/21	3/23	R
132171	" " "	" (2)		J-14-34		3/17	R
132175	" of Geokchaisky	Bely " (2)		J-14-37	3/16	3/14	R
132551	Samling #30	Germany		E-9-25	3/20	3/20	R
132551	" " "	"		D-45-10A		3/16	R
132552	Blutnektarine (nect)	"		D-39-20,22		3/19,18	R
132752	Rote Nectarine (nect)	"		D-44-44,45		3/18,20	R
133501	Elberta Camden	Australia		D-39-30		3/17	R
133501	" " "	"		D-45-12A		3/15	R
133502	Italian Cling	"		E-12-9,10	3/22,20	3/20	R
133505	Late Queen	"		D-45-7		3/18	R
133508	Phillips Cling	"		D-40-1,2		3/13	G



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Rating 2 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing 1952	1951	Leaf gland type (1)
133545	Catherine Ann	Australia		D-46-12A		3/18	G
133545	" "	"		E-12-21	3/19	3/25	G
133546	Chapman	"		E-6-34	3/22	3/25	G
133550	Peak Cling	"		E-12-29,30		3/18	E
133553	Pump's sdlg	"		E-12-35,36	3/23	3/25	G
133729	Crimson	"		E-6-3,4	3/21,20	3/27	R
133741	Lady Palmerston	"		D-45-10,11		3/19,20	R
133745	Smith's	"		E-9-3,4	3/24,23	3/26	G
133849	Golden Honey Freestone	N.Zealand		E-13-18,19		3/25	R
133861	Lippiatt's Late	"		D-40-45,46		3/14	G
134150	Sdlg.of Bresquillo	Duranznos Spain		E-4-9,10	3/20,21	3/19	R
135696	Sdlg(nect)	Afghanistan (2)		J-17-44	3/23	3/17	R
135991	Early Alfred	England		D-39-41,42		3/16,14	G
135991	" "	"		E-6-9		3/12	G
136144	Angevine	France		E-7-35	3/19	3/18	R
136154	Triumpholicio	"		D-45-21A		3/21	G
136580	Belle Imperiale	"		D-45-23A		3/13	G
138966-4	Seedling	South America(2)		E-7-30	3/24	3/25	R
138966-4	"	" " "		D-45-25A		3/22	R
141088	"	Iran (2)		J-16-46	3/23	3/19	R
141090	" (peach?)	" "		J-16-59	3/23	3/19	R
141091	" (nect)	" "		J-16-60	3/23	3/19	R
141091	" "	" "		J-16-62	3/24	3/19	R
141091	"	" "		J-16-63	3/22	3/19	R
141091	" (nect?)	" "		J-17-95	3/24	3/19	R
141091	" (nect)	" "		J-16-66	3/19	3/19	R
141091	" "	" "		J-16-69	3/22	3/17	R
141097	"	" "		J-K-31	3/20	3/17	R
141097	"	" "		J-K-36	3/20	3/18	R
141098	"	" "		J-K-6	3/20	3/19	R
141098	"	" "		J-K-19		3/16	R
141098	"	" "		J-K-18			R
141101	"	" "		J-J-20	3/20	3/20	R
141104	"	" "		J-L-24	3/19	3/20	R
141109	"	" "		J-L-2		3/19	R
141110	"	" "		J-17-24	3/19	3/20	R
141115	" (nect)	" "		J-H-5	3/21	3/14	R
141115	" "	" "		J-H-8		3/17	R
141115	" "	" "		J-H-13	3/20	3/18	R
141115	" "	" "		J-H-36	3/21	3/17	R
141115	" "	" "		J-H-39	3/18	3/18	R
141115	" "	" "		J-H-12		3/19	R
141115	" "	" "		J-H-23	3/19	3/19	R
141117	"	" "		J-K-54	3/18	3/18	R
141117	" (nect)	" "		J-K-56	3/21	3/18	R
141117	"	" "		J-K-47		3/19	R
141118	"	" "		J-J-64		3/18	R
141202	Alba flore pleno(purple leaf)	England		D-41-36		3/17	R
141202	" " " " "	"		D-40-29,30		3/21,22	R



Rating 2 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing 1952	1951	Leaf gland type (1)
143742	Roberta	U. S. A.		D-40-18		3/13	R
143742	"	"		D-45-33A		3/12	R
143910	Redhaven	"		E-5-3		3/17	R&G
143910	"	"		E-11-28, 29	3/21	3/20	R&G
143912	Flaming Gold (nect)	"		E-7-21, 22	3/23	3/20	R
145998	Seedling	Iran (2)		P-22-19	3/20	3/21	R
145998	"	" "		P-22-20	3/20	3/20	R
145998	"	" "		P-22-23	3/17	3/20	R
145998	"	" "		P-22-21		3/18	R
146001	"	" "		P-22-60	3/17	3/20	R
146001	"	" "		P-22-61	3/18	3/22	R
146001	"	" "		P-22-62	3/16	3/18	R
146001	" (nect)	" "		P-22-63	3/17	3/19	R
146004	" "	" "		P-23-58	3/17	3/20	R
146005	"	" "		P-23-14		3/20	R
146005	"	" "		P-23-15	3/20	3/19	R
146005	"	" "		P-23-17		3/20	R
146005	"	" "		P-23-19	3/19	3/23	R
146007	"	" "		P-22-64	3/18	3/18	R
146007	"	" "		P-22-65	3/17	3/18	R
146009	"	" "		P-24-31		3/20	R
146011	"	" "		P-22-29		3/26	R
146015	" (nect)	" "		P-21-64	3/15	3/21	R
146015	" "	" "		P-21-66	3/14	3/20	R
146015	" "	" "		P-21-68		3/20	R
146020	" "	" "		P-23-5		3/22	R
146020	" "	" "		P-23-6		3/21	R
146022	" "	" "		P-23-40		3/24	R
146022	" "	" "		P-23-41	3/20	3/23	R
146022	" "	" "		P-23-43		3/24	R
146022	" "	" "		P-23-44		3/21	R
146022	" "	" "		P-23-45	3/20	3/23	R
146022	" "	" "		P-23-47		3/21	R
146022	" "	" "		P-23-48		3/25	R
146022	" "	" "		P-23-49	3/18	3/20	R
146022	" "	" "		P-23-50	3/19	3/23	R
146022	" "	" "		P-23-42	3/20	3/22	R
146022	"	" "		P-23-51		3/23	R
146024	" (nect)	" "		P-24-7		3/20	R
146027	" (nect.?)	" "		P-20-47	3/18	3/23	R
146027	" "	" "		P-20-48	3/19	3/24	R
146027	" "	" "		P-20-49	3/17	3/21	R
146027	" "	" "		P-20-45	3/19	3/24	R
146027	" "	" "		P-20-46	3/19	3/24	R
146028	" (nect)	" "		P-23-3	3/19	3/18	R
146029	" (nect?)	" "		P-20-56	3/18	3/23	R
146029	" "	" "		P-20-57	3/16	3/21	R
146029	" (nect)	" "		P-20-59	3/19	3/21	R
146029	" "	" "		P-20-60		3/21	R

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Rating 2 (contd)

P.I.	Received as Clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
146032	Seedling (nect)	Iran (2)		P-22-44		3/20	R
146032	" "	" "		P-22-51		3/23	R
146032	" "	" "		P-22-54	3/18	3/22	R
146032	" "	" "		P-22-55		3/23	R
146034	" "	" "		P-21-57		3/21	R
146034	" "	" "		P-21-58	3/19	3/20	R
146034	" "	" "		P-21-61	3/18	3/22	R
146035	" "	" "		P-24-30	3/20	3/21	R
146035	" "	" "		P-24-27		3/21	R
146035	" "	" "		P-24-29		3/16	R
148199	Henrietta	U. S. A.		D-45-26		3/17	G
148199	"	"		E-14-15		3/20	G
148262	Early-Red-Fre	"		E-9-40,41	3/23,22	3/25	G
148620	Seedling	Iran (2)		P-24-43		3/20	
148620	"	" "		P-24-47	3/19	3/16	R
148620	"	" "		P-24-48	3/20	3/20	R
148620	"	" "		P-24-49		3/17	R
148620	"	" "		P-24-51	3/21	3/17	R
148622	(peach?)	" "		P-24-50		3/18	R
149397	Southland	U. S. A.		E-13-1		3/20	G
149397	"	"		E-14-36		3/12	G
151626	Beltsville #2-2221	"		D-45-33,34		3/13,12	R
151629	" #10365	"		D-45-40		3/14	G
151630	" #3705	"		D-45-41,42		3/15,18	R
151631	" #12156	"		D-46-2,3		3/13,14	R
151639	" #7406	"		D-45-40A,43		3/15	R
156959	Redcrest	"		D-43-11,11A		3/13	R
157221	Prairie Daybreak	"		D-43-12,12A		3/16,12	G
158369	Wild Rose	"		D-43-14A,15		3/13	R
159419	Prairie Rose	"		D-43-15A		3/15	G
159983	Seedling (3) (nect)						
	141115	Iran (2)		J-H-1	3/20		R
159983	" " "	" "		D-45-45,45A		3/15	R
162554	Homeygem	U. S. A.		D-43-16		3/14	R
162874	Beltsville 385	"		D-43-16A,17		3/29,22	R

Rating 3

C26677	Stanford	U.S.A.		E-13-28,29		3/20,12	G
C26896	Maxine	"		E-8-23	3/18	3/20	R
C26896	"	"		E-13-30			R
C26896	"	"		E-13-36	3/24	3/25	R
C27183	Robin	"		D-44-3,4		3/18,16	G
C27186	Curlew	"		D-44-9,15		3/16	R
C27190	Quetta (nect)	"		D-44-46		3/18	R
30358	Clone #893	U.S.S.R.		D-10-21		3/15	R
30358	" "	"		D-46-7		3/17	R
30358	" "	"		E-7-23	3/22	3/12	R
34685	Quetta (nect)	U. S. A		D-44-17A,18A		3/16,15	R
34685	" "	"		E-23-11	3/21	3/14	R
36127	Bolivian Freestone	Bolivia		Nurs.E2(B)			R

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Rating 3 (contd)

P.I.	Received as Clone	- Source	-Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
38469	Feicheng seedling	China (2)		D-44-19A, 20A		3/18, 19	R
38469	" "	" "		D-16-7		3/19	R
48694	Seedling of Ngie	" "		D-8-2		3/1	R&G
48694	" "	" "		D-44-21A		3/4	R&G
55886	Yunnan	" "		E-4-17	3/18	3/19	R
63851	Shalil	India (2)		D-44-22A, 23A		3/7, 13	R
63852	Shalil Cling	" "		D-16-15, 16		3/7, 8	R
78544	Terzarola col pizzo	Italy		E-10-1, 2	3/23, 22	3/25	E
88559	Wright's Midseason	New Zealand		E-18-3, 4		3/20	R
88559	" "	" "		D-26-12		3/12	R
89969	Seedling	(2) Island St. Helena		D-9-7		2/13	
95501	Seedling (3)	China (2)		E-18-7, 8	3/21	3/25, 20	R
95501	" "	" "		E-103-15		3/20	R
101559	" "	France (2)		D-25-28		3/21	R
101559	" "	" "		D-44-37A		3/20	R
102534	Topazio	Italy		E-9-6, 7		3/20	G
103797	Seedling	India (2)		D-30-28		3/10	
104029	Noce Pesca Gialla (nect)	Italy		E-24-29, 30	3/22	3/21, 20	R
104286	Senateur Cazenave	Morocco		Nurs. E1(A)			R
104315	North Caucasus #17(3)	U.S.S.R. (2)		Nurs. E4(D)			G
104487	Di Verona	Italy		E-10-19, 20	3/21	3/20	R
104495	Topazio	"		E-18-13, 14	3/19	3/20	R
109902	Bellegarde	England		E-2-29, 30	3/20, 19	3/19	G
111837	Masterpiece (nect)	Australia		E-24-17, 18		3/17	R
111925	Newington (nect)	"		E-5-42, 43	3/18, 21	3/30	R
116638	Seedling	India (2)		Nurs. E2(B)	3/25		R
119840	Turnip-Shape	U.S.S.R.		E-14-9, 10		3/18	R
125015	Kalhaven	U.S.A.		E-18-21, 22		3/20	R
125104	Ambergem	"		E-14-32, 33	3/20	3/17, 18	R
126553	Delicious	"		E-3-21, 22		3/12, 19	R
126556	Oricle	"		E-3-15, 16	3/22, 19	3/24	R
126558	Rosebud	"		E-3-27, 28		3/17, 19	R
126561	Veteran	"		E-3-1, 2		3/19, 18	R
126565	Vedette	"		E-3-13, 14	3/21, 23	3/22	R
126578	Sieger	Germany		D-44-21, 22		3/18, 16	R
129677	Sea Eagle	South Africa		E-18-31, 32	3/20, 21	3/25	G
129813	Pump's Seedling	Australia		D-44-25, 26		3/19, 20	G
130723	Seedling	Mexico (2)		J-13-115		3/8	R
130726	"	" "		J-13-126		3/4	R
130726	"	" "		J-13-130		3/8	R
130726	"	" "		J-13-132		3/6	R
130726	"	" "		J-13-127		3/6	R
130726	"	" "		J-13-128		3/7	R
130901	Sea Eagle	England		E-6-36, 37	3/22, 21	3/19	G
131030	Sunhigh	U. S. A.		E-19-18		3/19	R
131034	Spathe de Hallen	Poland		D-44-29		3/17	R
131177	Seedling	Mexico (2)		J-14-3		3/14	R
131783	Bixcoute	France		E-8-28		3/20	R
131785	Clemence Isaure	"		E-12-1, 2	3/23, 24	3/25	R
131797	Monstreuse Pelissier	"		D-46-11A		3/10	R



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Rating 3 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing		Leaf gland type (1)
					1952	1951	
133548	Hawkesbury Champion	Australia		E-12-25, 26	3/22	3/20	G
133556	Willow Leafed Elberta	"		D-39-27		3/16	G
133556	" "	"		D-45-13A		3/21	
133743	Riverside	"		E-12-37, 38		3/15, 18	R
133746	Wright's Early	"		E-12-39, 40	3/20, 21	3/25	G
133844	Seedling (3)	U.S.S.R. (2)		E-19-41, 42	3/21, 23	3/26	R
133844	" "	" "		D-45-12, 13		3/21, 18	R
133844	" "	" "		E-95-26		3/23	R
133847	Free Queen	New Zealand		E-13-16, 17		3/20	E
133863	Rikaku Jap	" "		D-45-14, 15		3/16	R
133982	Herholdt's Late Cling	S.Africa		D-45-14A		3/15	R
133982	" " "	"		E-9-19		3/18	R
133984	Marina	"		E-9-35	3/21	3/20	R
133984	"	"		D-45-20		3/16	R
134400	Seedling (3)	China (2)		D-16-17	3/27	3/17	R&G
134400	" "	" "		E-20-3, 4	3/20, 22	3/14	R&G
134401	" "	" "		D-16-18		3/21	R
134688	Raritan Rose	U.S.A.		E-7-36, 37	3/19, 21	3/18	R
134688	" "	"		E-20-23, 24		3/18	R
135696	Seedling (nect)	Afghanistan (2)		J-17-32	3/23	3/23	
135696	" "	" "		J-17-33	3/21	3/19	
135696	" "	" "		J-17-35	3/22	3/18	R
135696	" "	" "		J-17-40	3/24	3/19	R
135696	" "	" "		J-17-42	3/22	3/19	R
135696	" "	" "		J-17-47	3/24		R
135696	" "	" "		J-17-54	3/23		R
135866	"	India (2)		J-19-95	3/20	3/20	R
135994	Amy, persica foliis purpureis	England		E-8-38, 41	3/24	3/20, 25	R
135994	" " "	" "		E-6-32	3/25	3/25	R
136146	Chilon	France		D-39-15		3/14	R
136146	"	"		D-40-37		3/21	R
136153	Tardive d'Octobre	"		Nurs. E4 (D)			G
138969	Seedling (3)	U.S.S.R. (2)		D-10-6		3/15	R
139155	A-1	New Zealand		D-40-14, 15		3/14, 15	G
139195	Wiggins	Australia		D-39-18, 19		3/16, 17	R
139195	"	"		D-45-31A		3/13	R
141086	Seedling	Iran (2)		J-18-39	3/19	3/17	R
141087	"	" "		J-16-45	3/21	3/19	R
141087	"	" "		J-1-58	3/21	3/19	R
141087	"	" "		J-1-59	3/20	3/19	R
141090	" (peach?)	" "		J-16-52	3/24	3/19	R
141090	" "	" "		J-16-47	3/22	3/17	R
141091	" "	" "		J-16-70	3/15	3/19	R
141091	" (nect)	" "		J-17-97	3/22	3/19	R
141091	" "	" "		J-17-101	3/22	3/19	R
141091	" "	" "		J-17-102	3/23	3/19	R
141091	" "	" "		J-16-64	3/20	3/19	R
141091	" "	" "		J-16-68	3/16	3/17	R
141092	"	" "		J-16-76	3/22		R
141097	"	" "		J-K-35	3/18	3/19	R



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Rating 3 (contd)

P.I.	Received as Clone	- Source -	Rating	Location	First 1952	Leafing 1951	Leaf gland type (1)
141098	Seedling	Iran (2)		J-K-11	3/20	3/19	R
141098	"	" "		J-K-1	3/18		R
141098	"	" "		J-K-2	3/19	3/20	R
141099	"	" "		J-I-54	3/20	3/20	R
141100	"	" "		J-I-40	3/21	3/20	R
141100	"	" "		J-I-38	3/19	3/18	R
141100	"	" "		J-I-39	3/20	3/20	R
141101	"	" "		J-J-6	3/19	3/20	R
141101	"	" "		J-J-13	3/17	3/19	R
141101	"	" "		J-J-14	3/19	3/19	R
141101	"	" "		J-J-19	3/18	3/19	R
141101	"	" "		J-J-5	3/18	3/19	R
141101	"	" "		J-J-7	3/18	3/13	R
141101	"	" "		J-J-11	3/18	3/19	R
141104	"	" "		J-L-15		3/20	R
141104	"	" "		J-L-26	3/18	3/18	R
141104	"	" "		J-L-32	3/20	3/19	R
141105	" (peach?)	" "		J-17-11	3/21	3/19	R
141106	"	" "		J-17-12	3/20	3/24	R
141109	"	" "		J-L-10		3/17	R
141111	"	" "		J-17-31	3/23	3/19	R
141111	"	" "		J-18-64	3/22	3/19	R
141115	" (nect)	" "		J-H-26		3/15	R
141115	" "	" "		J-H-33	3/20	3/18	R
141115	" "	" "		J-H-30	3/20	3/10	R
141117	" "	" "		J-K-44	3/20	3/18	R
141117	" "	" "		J-K-45	3/20	3/17	R
141117	" "	" "		J-K-50	3/20	3/18	R
141117	" "	" "		J-K-55	3/21	3/17	R
141117	" "	" "		J-K-49		3/17	R
141117	" "	" "		J-K-51	3/21	3/17	R
142235	Vesfreeze	Canada		E-7-3,4		3/20	R
143345	Seedling	Iran (2)		J-I-95		3/16	R
143741	Hiley	U. S. A.		D-39-13,14		3/14,13	R
143907	Halate	"		E-9-16,17		3/20	G
143907	"	"		E-10-26		3/12	G
143913	Rubired (nect)	"		D-46-13A		3/18	R
144643	Zarn	"		E-7-14		3/19	R
144643	"	"		D-46-14A		3/10	R
144655	Gage Elberta	"		D-45-27,28		3/13,14	R
145064	Early Halehaven	"		E-9-5		3/18	G
145064	" "	"		E-8-1		3/20	G
145996	Seedling	Iran (2)		P-22-5	3/16	3/19	R
145996	"	" "		P-22-4	3/19	3/20	R
146000	"	" "		P-22-18	3/20	3/17	R
146001	"	" "		P-22-57	3/19	3/21	R
146001	"	" "		P-22-58	3/16	3/22	R
146001	"	" "		P-22-59	3/17	3/19	R
146002	"	" "		P-23-9	3/19	3/13	R
146002	"	" "		R-23-11	3/19	3/14	R

## Rating 3 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing		Leaf gland type (1)
					1952	1951	
146002	Seedling	Iran (2)		P-23-13	3/20	3/18	R
146002	"	" "		P-23-10	3/18	3/12	R
146002	"	" "		P-23-12	3/16	3/14	R
146004	"	" "		P-23-53	3/18	3/17	R
146004	"	" "		P-23-54	3/17	3/18	R
146004	"	" "		P-23-55	3/18	3/19	R
146004	"	" "		P-23-59	3/18	3/21	R
146004	"	" "		P-23-60	3/17	3/20	R
146004	"	" "		P-23-61	3/15	3/19	R
146004	"	" "		P-23-63	3/17	3/21	R
146004	"	" "		P-23-65	3/17	3/16	R
146004	"	" "		P-23-67	3/15	3/16	R
146004	"	" "		P-23-52		3/23	R
146004	"	" "		P-23-56	3/17	3/20	R
146004	"	" "		P-23-57	3/16	3/19	R
146004	"	" "		P-23-62	3/16	3/20	R
146004	"	" "		P-23-64	3/18	3/23	R
146005	"	" "		P-23-18		3/21	R
146010	"	" "		P-22-9	3/18	3/21	R
146011	"	" "		P-22-26	3/17	3/25	R
146011	"	" "		P-22-27	3/17	3/18	R
146011	"	" "		P-22-28	3/16	3/18	R
146013	"	" "		P-22-10		3/18	R
146013	"	" "		P-22-14	3/18	3/17	R
146013	"	" "		P-22-16	3/19	3/20	R
146013	"	" "		P-22-17	3/19	3/20	R
146013	"	" "		P-22-12	3/20	3/22	R
146013	"	" "		P-22-15	3/20	3/18	R
146014	"	" "		P-23-35	3/19	3/18	R
146014	"	" "		P-23-36	3/18	3/17	R
146014	"	" "		P-23-37	3/17	3/17	R
146014	"	" "		P-23-25	3/17	3/20	R
146014	"	" "		P-23-26	3/16	3/18	R
146014	"	" "		P-23-34	3/19	3/20	R
146015	" (Nect)	" "		P-21-63	3/17	3/21	R
146015	" "	" "		P-21-65	3/16	3/21	R
146015	" "	" "		P-21-67	3/16	3/20	R
146015	" "	" "		P-21-69	3/19	3/20	R
146019	" "	" "		P-21-54	3/19	3/19	R
146019	" "	" "		P-21-55	3/20	3/21	R
146019	" "	" "		P-21-56	3/19	3/21	R
146019	" "	" "		P-21-52	3/17	3/22	R
146019	" "	" "		P-21-53	3/17	3/20	R
146020	"	" "		P-23-4	3/20	3/17	R
146021	" (Nect)	" "		P-21-9	3/19	3/21	R
146021	" "	" "		P-21-10	3/20	3/21	R
146021	" "	" "		P-21-11	3/20	3/21	R
146021	" "	" "		P-21-14	3/18	3/21	R
146021	" "	" "		P-21-17	3/20	3/21	R
146024	" (nect?)	" "		P-24-8		3/22	R
146025	" (nect)	" "		P-22-30	3/20	3/21	R

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Rating 3 (contd)

P.I.	Received as Clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
146025	Seedling (peach)	Iran	(2)	P-22-32	3/19	3/22	R
146027	" (nect?)	"	"	P-20-54	3/17	3/24	R
146027	" "	"	"	P-20-50	3/15	3/24	R
146027	" "	"	"	P-20-51	3/14	3/24	R
146027	" "	"	"	P-20-52	3/15	3/25	R
146027	" "	"	"	P-20-53	3/14	3/25	R
146027	" "	"	"	P-20-55	3/16	3/25	R
146028	" (nect)	"	"	P-23-2	3/19	3/22	R
146029	" (nect?)	"	"	P-20-58	3/19	3/21	R
146030	" (nect)	"	"	P-24-17	3/19	3/21	R
146030	" "	"	"	P-24-26	3/16	3/17	R
146031	" "	"	"	P-24-9		3/23	R
146031	" "	"	"	P-24-14	3/20	3/18	R
146031	" "	"	"	P-24-15	3/19	3/21	R
146031	" "	"	"	P-24-16	3/20	3/22	R
146032	" "	"	"	P-22-43		3/23	R
146032	" "	"	"	P-22-45		3/20	R
146032	" "	"	"	P-22-47		3/21	R
146032	" "	"	"	P-22-48		3/21	R
146032	" "	"	"	P-22-49	3/19	3/24	R
146032	" (nect?)	"	"	P-22-50		3/20	R
146032	" (nect)	"	"	P-22-52	3/19	3/20	R
146032	" "	"	"	P-22-53	3/17	3/21	R
146032	" "	"	"	P-22-56	3/19	3/21	R
146034	" "	"	"	P-21-59		3/21	R
146034	" "	"	"	P-21-60		3/22	R
148202	Williams	U. S. A.		E-9-38, 39	3/22	3/16, 25	G
148264	Gage Elberta	"		D-45-35A, 36A		3/14, 13	G
148265	Gemmer's Late Elberta	"		D-45-30		3/18	R
148265	" " "	"		E-14-19		3/15	R
148267	Lizzie	"		E-13-42, 43		3/20, 15	R
148395	Fireglow	"		E-14-1, 2		3/20	R
148618	Seedling	Iran	(2)	P-24-67	3/19	3/21	R
148619	"	"	"	P-24-36	3/14	3/16	R
148619	"	"	"	P-24-37		3/18	R
148620	"	"	"	P-24-41		3/16	R
148620	"	"	"	P-24-42		3/21	R
148620	"	"	"	P-24-44		3/15	R
148620	"	"	"	P-24-45	3/20	3/19	R
148623	" (nect)	"	"	P-24-57	3/18	3/19	R
150647	Garden State (nect)	U. S. A.		E-15-1, 2		3/20	R
150774	Redskin	"		E-15-3, 4		3/18	R
151628	Beltsville #329	"		D-45-35, 36		3/11	R
151635	" #7398	"		D-45-39, 39A		3/14, 15	R
151648	Golden Heath	"		D-46-12, 13		3/12, 13	R
151651	Sullivan's Elberta	"		D-46-26, 27		3/10, 13	R
151652	Sunday	"		D-46-28, 29		3/14, 15	R
151654	Vivid Gold	"		D-46-30, 31		3/14, 13	R
151718	Dixired	"		D-46-32		3/15	G
152148	Beltsville #8639	"		D-45-41A		3/18	R



Rating 3 (contd)

P.I.	Received as Clone	- Source -	Rating	Location	First Leafing 1952	1951	Leaf gland type (1)
152149	F.V.9-93	U. S. A.		D-46-33,34		3/16,18	R
153810	N.J.#133	"		D-47-2		3/15	R
153810	" "	"		D-45-42A		3/20	R
153811	Early East	"		D-46-37,38		3/15	R
153813	N.J. #137	"		D-46-43,44		3/15	R
161320	Seedling (3)(nect)	Iran (2)		J-H-24	3/21	3/16	R
161320	" " "	" "		D-46-2A,3A		3/13	R
161321	" " "	" "		J-H-28		3/12	R
161321	" " "	" "		D-46-4A,5A		3/13	R

Rating 4

C27152	Belle of Georgia	U.S.A.		D-40-5,6		3/14	R
C27153	Eclipse	"		D-40-19,20		3/15	R
C27342	Elberta seedling	"		E-36-29		3/22	R
24807	Hansen Free	Turkestan (2)		E-6,7-43		3/19,20	R
26503	Seedling	India (2)		D-44-14A		3/16	R
43137	Up-to-date	New Zealand		E-4-7,8	3/16	3/17	R
43289	Eagle Beak- Ying Tau	Tao China		E-11-4,5		3/8	R&G
43289	" " " "	" "		D-17-29		3/14	
55776	Yunnan	China (2)		D-44-18		3/5	R
55776	"	" "		D-44-19		3/7	R
55776	"	" "		D-44-20		3/8	R
55885	"	" "		E-4-15,16		3/17,19	R
55888	"	" "		E-4-19,20		3/14,17	R
62602	Pi Tao	"		E-2-9,10	3/23	3/26	R
71138	Seedling	" (2)		D-28-29		3/17	R
72094	Hsueh Tao	"		E-2-12	3/19	3/19	R
80128	Agostina	Sicily		E-4-37,38		3/15	R
80128	"	"		E-15-11,12		3/18,12	R
86296	Seedling	Persia (2)		E-98-12		3/22	R&G
86296	"	" "		NurseE2(B)			R
88557	Wright's Beautiful	New Zealand		E-8-29,30	3/19	3/20	G
95501	Seedling (3)	China (2)		E-18-5,6	3/20	3/15	R&G
102705	" (nect)	U.S.S.R. (2)		E-2-17,18	3/20,18	3/17	R
102706	Ferganensis	" "		E-2-19	3/17	3/19	R
102706	"	" "		E-2-20	3/18	3/17	R
104485	Celeste Imperial	Italy		E-10-15,16	3/20,19	3/25	R
105058	Seedling F2-126	U. S. S. R.(2)		NurseE4(D)			R&G
105061	" F3-12	" "		NurseE2(B)1			R
105061	" F3-14	" "		NurseE2(B)			R
105062	" F3-32	" "		NurseE2(B)			R&G
105062	" F3-35	" "		NurseE2(B)			R&G
105854	Shanghai Slip	Australia		E-2-27,28		3/19,17	R
106062	Killiekrankie	S.Africa		E-18-15		2/23	R&G
106948	Seedling F3/115 Mac	China (2)		NurseE2(B)			R
112033	Saharampur #2	India		E-8-9,10		3/12	R
113454	Ferganensis #59	U.S.S.R.		E-13-6,7		3/10,20	R
113455	" #02446	"		E-2-41,42	3/23,15	3/19,12	R
113456	" #808	"		E-13-8		3/20	R

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Rating 4 (contd.)

P.I.	Received as Clone	- Source -	Rating	Location	First Leafing		Leaf gland type (1)
					1952	1951	
119839	Shirin Donak #1281T	U.S.S.R.		E-14-7,8	3/20,18	3/26,15	R
119844	Clone #0932 (nect)	"		E-25-3,4	3/20	3/21,25	R&G
125283	Triogem	U. S. A.		E-13-22,23	3/19	3/19	R
126551	Buttercup	"		E-3-19,20	3/24	3/19	R
126557	Radiance	"		E-3-17,18		3/19	R
126559	Golden Jubilee	"		E-13-24,25		3/20	R
129607	Peak Cling	Australia		E-18-27		3/10	R
129806	Gold Dust	"		E-18-37,38	3/22,23	3/20,12	R
129808	Kia Ora	"		E-18-41,42		3/18,14	R
129814	Sims Cling	"		E-11-12,13		3/12	R
130723	Seedling	Mexico (2)		J-13-114		3/9	R
130723	"	" "		J-13-120		3/8	R
130724	"	" "		J-13-121		3/8	R
130724	"	" "		J-13-122		3/8	R
130900	Prince of Wales	England		E-10-17,18	3/20,19	3/15	R
130934	Afterglow	U. S. A.		E-11-16,17		3/15	R
130935	Golden East	"		E-11-18,19		3/20,15	R
130935	" "	"		E-13-26,27	3/19	3/18,20	R
130936	Golden Globe	"		E-19-11	3/23	3/29	R
131029	Newday	"		E-19-15,16		3/12	R
131548	Double Montagne	Belgium		D-44-33,34		3/12	R
131796	Madeline Rouge	France		E-4-3	3/20	3/12	R
131801	Jaune Magnifique (nect)	"		E-6-41,42	3/21,20	3/17	R
131844	Belle Henri Pinaut	"		E-8-7	3/19	3/17	G
132032	Bailey x Davidiana	U. S. A.		E-6-21,22		2/23	G
133500	Eclipse	Australia		D-40-35,36		3/13	R
133627	Seedling (3)	U.S.S.R.(2)		E-19-39,40		3/17,12	R
133627	" "	" "		D-10-8		3/12	R
133730	Mellor Park Crimson	Australia		D-45-8,9		2/12	R
133865	Tanaka Wase Jap.	New Zealand		E-20-11		3/18	R
133870	Wright's Bountiful	" "		E-20-17,18		3/18	G
135694	Seedling	Afghanistan (2)		J-15-68	3/18	3/14	R
135866	"	India (2)		J-19-97		3/16	R
135866	"	" "		J-19-109		3/20	G
135991	Early Alfred	England		E-9-28		3/12	G
137910	Seedling	Iran (2)		J-15-133	3/19	3/15	R
137910	"	" "		J-15-134	3/21	3/19	R
137912	"	" "		J-16-1	3/18	3/15	R
137913	"	" "		J-16-23	3/17	3/17	R
137914	"	" "		J-16-39	3/18	3/15	R
137914	"	" "		J-16-40	3/19		R
138966-2	"	S. America (2)		E-6-29,30		3/19,10	R
138966-3	"	" " "		D-45-24A		3/12	R
138966-3	"	" " "		E-9-34		3/17	R
138966-9	"	" " "		D-45-27A		3/12	R
138966-9	"	" " "		E-7-33		3/10	R
138966-11	"	" " "		E-6-23,24		3/12	R
138966-12	"	" " "		D-45-24,25		3/9,10	R
138966-15	"	" " "		D-45-30A		3/14	R

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Rating 4 (contd)

P.I.	Received as Clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
139187	Ideal	New Zealand		D-40-16,17		3/13,14	R
141086	Seedling	Iran (2)		J-18-40	3/19	3/18	R
141086	" (peach?)	" "		J-18-36	3/12	3/14	R
141086	"	" "		J-18-41	3/20	3/17	R
141086	"	" "		J-18-42	3/19	3/16	R
141086	" (peach?)	" "		J-18-43	3/15	3/17	R
141086	" "	" "		J-16-41	3/22	3/17	R
141090	" "	" "		J-16-48	3/19	3/16	R
141090	" "	" "		J-16-54	3/23	3/17	R
141090	" "	" "		J-16-57	3/17	3/17	R
141090	" "	" "		J-16-49	3/18	3/17	R
141091	" (nect)	" "		J-17-90	3/19	3/16	R
141091	" "	" "		J-17-93	3/21	3/16	R
141091	" "	" "		J-17-100	3/23	3/17	R
141091	" "	" "		J-17-92	3/20	3/17	R
141091	" "	" "		J-17-103	3/23	3/19	R
141092	"	" "		J-18-134	3/20	3/17	R
141092	"	" "		J-18-136	3/21	3/17	R
141092	"	" "		J-16-75		3/16	R
141092	" (peach?)	" "		J-16-72	3/20	3/14	R
141092	"	" "		J-16-73	3/23	3/14	R
141092	"	" "		J-16-77	3/22	3/14	R
141092	"	" "		J-16-79	3/19	3/14	R
141094	"	" "		J-16-83		3/15	R
141094	" (peach?)	" "		J-16-86		3/16	R
141094	"	" "		J-16-89	3/15	3/16	R
141096	" (peach?)	" "		J-16-94	3/15	3/16	R
141096	" "	" "		J-16-95	3/18	3/15	R
141096	" "	" "		J-16-96	3/15	3/16	R
141096	"	" "		J-18-57	3/20	3/17	R
141096	"	" "		J-18-63	3/16	3/20	R
141096	"	" "		J-18-56	3/17	3/17	R
141096	"	" "		J-18-58	3/19	3/18	R
141097	" (peach?)	" "		J-16-97	3/17	3/17	R
141097	" "	" "		J-16-100	3/19	3/16	R
141097	" "	" "		J-16-101	3/17	3/16	R
141097	" "	" "		J-K-40	3/19	3/16	
141097	" "	" "		J-16-102	3/19	3/17	R
141098	"	" "		J-16-104	3/18	3/18	R
141098	" (peach?)	" "		J-16-113	3/20	3/19	R
141099	"	" "		J-I-55	3/18	3/19	R
141100	" (peach?)	" "		J-16-123	3/20	3/18	R
141100	" "	" "		J-16-124	3/21	3/17	R
141100	"	" "		J-I-36		3/16	R
141100	"	" "		J-16-120	3/21	3/17	R
141100	" (peach?)	" "		J-16-122	3/20	3/19	R
141101	" "	" "		J-16-130		3/14	R
141101	" "	" "		J-16-125	3/19	3/16	R
141101	" "	" "		J-16-131	3/21	3/19	R
141104	"	" "		J-16-154	3/22	3/19	R
141104	" (peach?)	" "		J-17-1	3/15	3/18	R
141104	"	" "		J-17-2	3/16	3/19	R



Rating 4 (contd)

P.I.	Received as clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
141105	Seedling	Iran (2)		J-18-139	3/19	3/16	R
141107	"	" "		J-17-14	3/19	3/19	R
141107	"	" "		J-17-153	3/21	3/18	R
141107	"	" "		J-17-154	3/24	3/17	R
141108	" (peach?)	" "		J-17-15	3/15	3/18	R
141108	"	" "		J-18-124	3/23	3/20	R
141108	"	" "		J-17-16	3/17	3/16	R
141109	"	" "		J-17-18	3/16	3/16	R
141109	"	" "		J-17-20	3/18	3/15	R
141111	"	" "		J-18-64	3/22	3/19	R
141111	" (peach?)	" "		J-18-69	3/21	3/18	R
143828	Late Rose	U. S. A.		E-8-36, 37		3/20	R
143905	Fertile Hale	"		E-8-11, 12		3/17, 20	R
143909	Redalberta	"		E-10-11, 12		3/18	R
145076	Michigoli	"		E-9-10, 18		3/12	R
145996	Seedling	Iran (2)		P-22-1	3/18	3/14	R
145996	"	" "		P-22-2	3/17	3/14	R
145997	"	" "		P-21-46	3/14	3/14	R
146004	"	" "		P-23-66	3/16	3/16	R
146005	"	" "		P-23-16	3/20	3/16	R
146005	"	" "		P-23-20	3/17	3/14	R
146010	"	" "		P-22-7	3/17	3/13	R
146010	"	" "		P-22-8	3/16	3/13	R
146012	"	" "		P-22-25	3/18	3/18	R
146013	"	" "		P-22-11	3/19	3/15	R
146014	"	" "		P-23-22	3/17	3/15	R
146014	"	" "		P-23-27	3/19	3/14	R
146014	"	" "		P-23-28	3/18	3/18	R
146014	"	" "		P-23-30	3/16	3/14	R
146014	"	" "		P-23-31	3/17	3/18	R
146014	"	" "		P-23-32	3/18	3/18	R
146014	"	" "		P-23-21	3/16	3/14	R
146014	"	" "		P-23-23	3/15	3/11	R
146014	"	" "		P-23-29	3/17	3/14	R
146016	" (nect)	" "		P-20-61	3/17	3/15	R
146016	" "	" "		P-20-62	3/17	3/15	R
146016	" "	" "		P-20-63	3/17	3/15	R
146016	" "	" "		P-20-64	3/19	3/15	R
146016	" "	" "		P-20-66	3/17	3/14	R&G
146016	" "	" "		P-21-2	3/17	3/15	R
146016	" "	" "		P-21-3	3/19	3/15	R
146016	" "	" "		P-21-4		3/15	R
146016	" "	" "		P-20-67	3/16	3/14	R
146017	" "	" "		P-21-49		3/16	R
146017	" "	" "		P-21-50	3/17	3/15	R
146018	" "	" "		P-24-2	3/17	3/15	R
146018	" "	" "		P-24-3	3/17	3/15	R
146018	" "	" "		P-24-4	3/16	3/15	R
146018	" "	" "		P-24-1	3/16	3/14	R&G

Rating 4 (contd)

P.I.	Received as Clone	- Source -	Rating	- Location	First 1952	Leafing 1951	Leaf gland type (1)
146018	Seedling	Iran (2)		P-24-6	3/17	3/14	
146019	"	" "		P-24-54	3/18	3/15	R
146021	"	" "		P-24-15	3/19	3/14	R
140921	" (neet)	" "		P-24-5	3/18	3/17	R
146021	" "	" "		P-24-8	3/19	3/14	R
146030	" "	" "		P-24-19	3/18	3/16	R
146030	"	" "		P-24-24	3/17	3/13	R
146030	"	" "		P-24-18	3/19	3/15	R
146031	"	" "		P-24-11	3/20	3/14	R
146034	"	" "		P-24-13	3/19	3/14	R
146034	"	" "		P-24-10	3/18	3/11	R
146133	" (3)	India (2)		D-45-34A		3/15	R
146701	Hardae	U. S. A.		D-46-21		3/16	R
146701	"	"		E-11-34		3/20	R
148263	Fireglow	"		E-9-42,43		3/16	R
148266	Hope Farm	"		E-10-37,38	3/17	3/20	R
148623	Seedling (neet)	Iran (2)		P-24-52	3/20	3/15	R
148623	" "	" "		P-24-53	3/17	3/15	R
148623	" "	" "		P-24-54	3/16	3/14	R
148623	" "	" "		P-24-55	3/17	3/15	R
148623	" "	" "		P-24-56	3/16	3/15	R
148623	" "	" "		P-24-58	3/18	3/15	R
148623	" "	" "		P-24-59	3/19	3/16	R
148624	" "	" "		P-24-66	3/19	3/15	R
148624	" "	" "		P-24-62	3/16	3/15	R
148624	" "	" "		P-24-64	3/16	3/14	R
148624	" "	" "		P-24-65	3/17	3/14	R
151637	Beltsville #7426	U. S. A.		D-46-6		3/13	R
151638	" #2832	"		D-46-10,11		3/8	R
151650	Sandhill #1	"		D-46-14,15		3/9,10	R
153812	Jerseyland	"		D-47-3		3/15	R

Rating 5

G26646	Babcock	U.S.A.		E-8-26		3/12	G
G27059	Bokhara	"		E-15-7,8		3/12	R
26503	Seedling	India (2)		D-44-8A		3/15	R
36126	Bolivian Cling	Bolivia (2)		E-3-35-36	3/19	3/12,15	R
43124	A-1 (sdlg of Elberta)	New Zealand		E-3-39,40		3/10	R
43127	Ideal	" "		E-3-41,42,43	3/21	3/17	R&G
57686	Selection #1	Chile		E-5-37		3/12	R
61302	Bolivian Cling x Quetta	U.S.A.		E-2-7,8	3/20	3/10	R
63850	Shallil	India (2)		E-4-21,22		3/15	R
65518	Sdlg of Mao Tao	Manchuria		NursEL(A)			R
65821	Shan Thai tao	China (2)		E-7-31,32		2/23	R
65821	" " "	" "		D-30-35		2/13	R
82648	Seedling	U.S.S.R.(2)		E-96-1		3/12	R&G
82648	"	"		E-96-3		3/12	R&G

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Rating 5 (contd)

P.I.	Received as Clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
82648	Seedling	U. S. S. R	(2)	E-96-9		3/12	R&G
92763	"	Morocco		E-7-13		3/12	R
92763	"	"		E-10-3,4		3/8	R
95501	"	China (2)		E-18-9,10		3/15	R
95501	"	" "		E-103-16		3/19	R
101725	Mac (F-1-99)	" "		NursE3(C)			R&G
101489	Giulla tardiva di Milano	Italy		E-10-23,24		3/12	R
105061	Seedling (F3/24)	U.S.S.R. (2)		NursE2(B)			R
105062	" (F3/27)	" "		"			R&G
106062	Killiekrankie	S. Africa		E-18-16		2/10	R&G
107838	Mao	China (2)		NursE2(B)			R
112032	Saharanpur #1	India		E-9-8,9		3/8	R
112035	Shanghai freestone	"		E-12-41,42		2/12,14	R
113457	Red nectarine	U.S.S.R.		E-25-2		3/12	R
119841	Fergansensis #849	"		E-14-11,12	3/19,20	3/12	R&G
119843	"	"		E-14-13,14	3/18,21	3/11,20	R
119846	Amy. persica platycarpa	"		E-14-18	3/21	3/20	R
123969	Lialak 769T (nect)	"		E-14-21,22	3/22,21	3/15,12	R
125016	Ranniaya	"		E-14-23,24		3/12	R
125017	Sary Oilor (nect)	"		E-25-5,6		3/12	R&G
125019	Unknown peach	"		E-14-28		3/12	R
125025	China Flat	India		E-18-23,24	2/18	2/9	R
125103	Primrose	U.S.A.		E-14-29,30,31		3/17	R
126567	Wilma	"		E-3-7,8		3/12	R
129603	Guame	Australia		E-18-25,26		3/12	R
129674	Angel	S. Africa		E-18-29,30	2/22,21	3/12	R&G
129804	Black Prince	Australia		E-18-35,36		3/15	R
130724	Seedling	Mexico (2)		J-13-123		3/9	R
130725	"	" "		J-13-125		3/15	R
130729	"	" "		J-13-134	3/20	3/15	R
130729	"	" "		J-13-149	3/16	3/14	R
130729	"	" "		J-13-140		3/13	R
130729	"	" "		J-13-147		3/11	R
130729	"	" "		J-13-151	3/17	3/9	R
130729	"	" "		J-13-154		3/11	R
133507	Meteor	Australia		E-12-15,16	3/20	3/14	R
133509	Pioneer	"		E-12-19,20		3/15,12	R
133547	Elberta Cling	"		E-12-23,24		3/18	R
133868	Taylor's Red	New Zealand		E-20-13,14		3/12,18	R
133869	White Elberta	" "		E-20-15,16		3/12	R
133869	" "	" "		E-8-27	3/22	3/12	R
134687	Red Rose	U.S.A.		E-14-25,26		3/16,12	R
134687	" "	"		E-20-21,22		3/12	R
134689	Pacemaker	"		E-20-25,26		3/15	R
134690	White Hale	"		E-20-27,28		3/15	R
135694	Seedling	Afghanistan(2)		J-15-69	3/20	3/14	R
135694	"	" "		J-15-71	3/17	3/15	R
135694	"	" "		J-15-73	3/18	3/16	R
135694	"	" "		J-15-77	3/19	3/15	R



Rating 5 (contd)

P.I.	Received as Clone	Source	Rating	Location	First Leafing		Leaf gland type(1)
					1952	1951	
135866	Seedling	India (2)		J-19-91	3/20	3/14	R
135866	"	"	"	J-19-92		3/14	R
135866	"	"	"	J-19-96	3/20	3/14	R
135866	"	"	"	J-19-106		3/14	R
135866	"	"	"	J-19-123	3/18	3/14	R
135866	"	"	"	J-19-129		3/14	R
135866	"	"	"	J-19-130		3/14	R
135866	"	"	"	J-19-99		3/16	R
135866	"	"	"	J-19-102		3/16	R
135866	"	"	"	J-19-103		3/17	R
135866	"	"	"	J-19-110		3/16	R
135866	"	"	"	J-19-113	3/14	3/16	R
135866	"	"	"	J-19-118		3/14	R
135866	"	"	"	J-19-119		3/14	R
135866	"	"	"	J-19-120		3/15	R
135866	"	"	"	J-19-124		3/14	R
135866	"	"	"	J-19-125		3/15	R
135866	"	"	"	J-19-126		3/15	R
135867	"	"	"	J-15-81		3/14	R
135867	"	"	"	J-15-86		3/12	R
135867	"	"	"	J-15-88		3/15	R
137908	" (Peach?)	Iran (2)		J-15-118		3/15	R
137908	"	"	"	J-15-115		3/16	R
137908	"	"	"	J-15-116		3/14	R
137908	"	"	"	J-15-114		3/15	R
137908	"	"	"	J-15-113		3/14	R
137908	"	"	"	J-15-111		3/16	R
137908	"	"	"	J-15-107		3/16	R
137908	"	"	"	J-15-95	3/20	3/15	R
137908	"	"	"	J-15-92	3/19	3/15	R
137908	"	"	"	J-15-96		3/14	R
137908	"	"	"	J-15-97		3/16	R
137908	"	"	"	J-15-91	3/18	3/14	R
137908	"	"	"	J-15-93		3/14	R
137908	"	"	"	J-15-101		3/15	R
137908	"	"	"	J-15-98		3/14	R
137908	"	"	"	J-15-99		3/14	R
137908	"	"	"	J-15-100		3/14	R
137908	"	"	"	J-15-103		3/14	R
137908	"	"	"	J-15-106		3/14	R
137908	"	"	"	J-15-110		3/14	R
137908	"	"	"	J-15-108		3/15	R
137909	"	"	"	J-15-122		3/14	R
137909	"	"	"	J-15-123		3/10	R
137909	"	"	"	J-15-124		3/14	R
137909	"	"	"	J-15-121		3/11	R
137909	"	"	"	J-15-125		3/17	R
137909	"	"	"	J-15-126		3/16	R
137910	"	"	"	J-15-127	3/18	3/15	R
137910	"	"	"	J-15-130	3/19	3/14	R

Rating 5 (contd)

P.I.	Received as Clone	- Source -	Rating	- Location	First Leafing		Leaf gland type (1)
					1952	1951	
137910	Seedling (Peach?)	Iran (2)		J-15-129	3/18	3/14	R
137910	"	" "		J-15-128	3/20	3/14	R
137910	" (Peach ?)	" "		J-15-131	3/18	3/15	R
137911	"	" "		J-15-137		3/12	R
137911	" (Peach?)	" "		J-15-138		3/11	R
137911	" "	" "		J-15-139	3/20	3/12	R
137911	" "	" "		J-15-140		3/13	R
137911	" "	" "		J-15-141		3/19	R
137911	" "	" "		J-15-142		3/14	R
137911	" "	" "		J-15-144		3/14	R
137911	"	" "		J-15-145	3/21	3/16	R
137912	" (Peach?)	" "		J-16-2	3/16	3/14	R
137912	"	" "		J-16-7	3/17	3/16	R
137912	"	" "		J-16-11	3/19	3/15	R
137912	"	" "		J-16-18	3/18		R
137912	" (Peach?)	" "		J-16-16	3/16	3/16	R
137914	" "	" "		J-16-31	3/15	3/14	R
137914	" "	" "		J-16-26	3/20	3/15	R
137914	" "	" "		J-16-27	3/15	3/11	R
137914	" "	" "		J-16-29	3/13	3/17	R
137914	" "	" "		J-16-33	3/21	3/19	R
137914	" "	" "		J-16-34	3/20	3/14	R
137914	"	" "		J-16-38	3/19	3/17	R
138966-1	" (3)	S. America(2)		E-9-26,27		3/16,12	R
138966-5	" "	" " "		E-10-35		3/7	R
138966-10	" "	" " "		E-7-27,28		3/18,10	R
138966-13	" "	" " "		E-6-25,26		3/10,12	R
138966-15	" "	" " "		E-6-33		3/16	R
141090	"	Iran (2)		J-17-58	3/20	3/15	R
141090	"	" "		J-17-67	3/19	3/19	R
141090	"	" "		J-17-72		3/17	R
141090	"	" "		J-16-58	3/16	3/17	R
141090	"	" "		J-17-73	3/19	3/26	R
141090	"	" "		J-17-96	3/17	3/12	R
141091	"	" "		J-17-105	3/15	3/11	R
141091	"	" "		J-18-132	3/21	3/15	R
141092	"	" "		J-18-135	3/22	3/14	R
141092	"	" "		J-18-137	3/20	3/15	R
141092	" (Peach?)	" "		J-18-133	3/22	3/15	R
141093	" "	" "		J-18-119	3/18	3/14	R
141093	" "	" "		J-18-118		3/15	R
141094	" "	" "		J-17-79	3/15	3/16	R
141094	" "	" "		J-17-80	3/14	3/14	R
141094	" "	" "		J-17-81		3/15	R
141094	" "	" "		J-16-85		3/14	R
141094	"	" "		J-16-88	3/13	3/15	R
141094	"	" "		J-17-75		3/15	R
141094	"	" "		J-17-78		3/15	R
141094	"	" "		J-17-84		3/11	R

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Rating 5 (contd)

P.I.	Received as clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type(1)
141095	Seedling	Iran (2)		J-18-95	3/21	3/16	R
141095	"	" "		J-18-100	3/19	3/16	R
141098	" (Peach?)	" "		J-16-105	3/17		R
141101	" "	" "		J-16-126	3/20	3/15	R
141101	" "	" "		J-16-127	3/20	3/15	R
141101	" "	" "		J-16-129	3/20	3/15	R
141101	" "	" "		J-16-128	3/21	3/17	R
141102	"	" "		J-16-133	3/17	3/14	R
141102	"	" "		J-16-137		3/14	R
141102	"	" "		J-18-109		3/15	R
141102	"	" "		J-18-108		3/15	R
141102	"	" "		J-18-113		3/16	R
141102	"	" "		J-18-115		3/16	R
141103	"	" "		J-18-104		3/15	R
141103	"	" "		J-18-105		3/14	R
141103	"	" "		J-16-139		3/12	R
141103	"	" "		J-16-140	3/18	3/12	R
141103	"	" "		J-18-106		3/14	R
141103	"	" "		J-18-107		3/14	R
141103	" (Peach?)	" "		J-16-141	3/17	3/14	R
141104	"	" "		J-16-149	3/20	3/16	R
141104	"	" "		J-16-144	3/19	3/15	R
141105	"	" "		J-18-138	3/20	3/15	R
141111	"	" "		J-18-73	3/20	3/17	R
141111	"	" "		J-18-76	3/21	3/18	R
141111	"	" "		J-18-81	3/16	3/17	R
141111	"	" "		J-18-74	3/19	3/16	R
143904	Colora	U.S.A.		E-8-15, 16	3/21, 22	3/17	R
144642	Kette	"		E-8-31, 35	3/24	3/12	R
145997	Seedling (Peach?)	Iran (2)		P-21-26	3/17	3/14	R
145997	"	" "		P-21-27	3/17	3/14	R
145997	"	" "		P-21-28	3/16	3/14	R
145997	"	" "		P-21-29	3/16	3/14	R
145997	"	" "		P-21-31	3/16	3/14	R
145997	"	" "		P-21-33	3/16	3/14	R
145997	"	" "		P-21-34	3/17	3/14	R
145997	"	" "		P-21-37	3/17	3/14	R
145997	"	" "		P-21-39	3/15	3/14	R
145997	"	" "		P-21-42	3/15	3/14	R
145997	"	" "		P-21-45	3/16	3/14	R
145997	"	" "		P-21-47	3/14	3/14	R
145997	"	" "		P-21-21	3/16	3/14	R
145997	"	" "		P-21-22	3/15	3/14	R
145997	"	" "		P-21-23	3/15	3/14	R
145997	"	" "		P-21-24	3/18	3/14	R
145997	"	" "		P-21-35	3/16	3/14	R
145997	" (Peach?)	" "		P-21-36	3/16	3/14	R
145997	"	" "		P-21-43	3/16	3/14	R



Rating 5 (contd)

P.I.	Received as clone	- Source -	Rating	- Location	First Leafing 1952	1951	Leaf gland type (1)
146014	Seedling	Iran (2)		P-23-24	3/17	3/15	R
146014	"	" "		P-23-33	3/18	3/15	R
146016	" (nect)	" "		P-21-1		3/15	R
146017	" "	" "		P-21-48	3/18	3/15	R
146021	" "	" "		P-21-6	3/18		
146021	"	" "		P-21-7	3/15	3/14	R
146021	" (nect)	" "		P-21-18	3/19	3/15	
146021	" "	" "		P-21-20	3/18	3/14	R
146030	" "	" "		P-24-20	3/18	3/16	R
146030	" "	" "		P-24-21	3/17	3/14	R
146030	" "	" "		P-24-22	3/16	3/16	R
146030	"	" "		P-24-23	3/18	3/15	R
146130	Chico 11 (3)	China (2)		E-15-19, 20		3/23	R&G
148197	Chilow	U.S.A.		E-9-29		3/12	R
148620	Seedling	Iran (2)		P-24-38		3/12	R
148620	"	" "		P-24-40		3/10	R
148623	" (nect.)	" "		P-24-60	3/18	3/15	R
148624	" "	" "		P-24-63	3/17	3/15	R
148624	" "	" "		P-24-61	3/15	3/15	R

Table 2. Accumulated percentages of the number of peaches and nectarines within a leaf curl group coming into first leafing in 1952 at successive dates, together with weather data recorded during this period.

Leaf curl rating groups	Total number within each group	Days of first leafing - March 1952															
		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
0	11	0	0	0	0	9.1	9.1	18.2	18.2	18.2	18.2	18.2	100.0	100.0	100.0	100.0	100.0
0-0/1	16	0	0	0	0	12.5	12.5	18.8	18.8	25.0	31.2	56.2	62.5	75.0	100.0	100.0	100.0
1	211	0.5	0.9	0.9	0.9	3.3	5.2	11.4	19.4	30.8	46.0	66.8	78.7	90.5	94.8	98.1	100.0
2	148	0	1.4	2.0	4.1	9.5	16.9	29.7	48.6	59.5	69.6	85.8	95.3	96.6	99.3	99.3	100.0
3	188	0	1.6	4.3	11.2	20.2	31.4	49.5	66.5	78.7	88.3	94.2	98.4	99.5	99.5	100.0	100.0
4	160	0	0.6	5.0	15.0	32.5	45.6	66.9	80.0	86.9	91.9	98.1	100.0	100.0	100.0	100.0	100.0
5	126	1.6	4.0	11.9	23.8	35.7	51.6	62.7	82.5	93.6	99.2	99.2	100.0	100.0	100.0	100.0	100.0
Weather data	max.	52	45	47	49	52	58	55	56	60	64	64	76	81	80	76	77
	min.	36	37	42	36	41	44	40	28	28	28	33	45	47	39	41	52
	ppt.	.14	.62	.70	.24	-	.18	-	-	-	-	-	-	-	-	-	-
	high	94	92	95	95	88	94	91	89	88	71	81	85	83	90	80	77
	low	42	46	72	60	63	38	34	31	28	28	42	47	37	24	31	39

Table 3. Relationship between leaf gland types of peaches and nectarines and degree of leaf curl infection. Data arranged on an accumulated percentage basis of each gland type in ascending order of their leaf curl rating.

PEACHES

NECTARINES

Leaf Curl Ratings	Total number trees	Accumulative percentage of each gland type				Total number trees	Accumulative percentage of each gland type			
		E	G	R	R&G		E	G	R	R&G
c	20	3.4	7.9	0.3	0.0	9	50.0	0.0	1.1	0.0
0-0/1	20	10.2	15.3	0.3	4.2	2	50.0	8.3	1.1	0.0
1	259	83.0	44.9	16.8	25.0	92	100.0	91.7	25.1	0.0
2	235	93.2	74.0	35.1	39.6	93	100.0	100.0	55.3	57.1
3	265	100.0	93.1	59.3	50.0	69	100.0	100.0	80.4	57.1
4	203	100.0	99.5	79.3	68.7	44	100.0	100.0	94.9	85.7
5	204	100.0	100.0	100.0	100.0	16	100.0	100.0	100.0	100.0
Total	1206					325				



